



UAV



Now manufactured
in Canada

GISDefence.com

Built in Bulgaria, battle-tested in Ukraine with active combat duties. Now proudly manufactured in Canada.

Originally designed and constructed in Bulgaria, the RB(3) and RB(4) UAV is **now manufactured with pride in Canada**. This move highlights a commitment to advancing technology and enhancing quality, leveraging the expertise and infrastructure of its new Canadian home. By blending Bulgarian innovation with Canadian precision, this transition seamlessly integrates heritage with state-of-the-art manufacturing practices.

About GIS Defence

A globally integrated security systems provider, we are headquartered in Sofia, Bulgaria, with manufacturing and operational capabilities around the world. **We are now proudly manufacturing in Canada.**

Global Presence: With operations spanning North America, Europe, the Middle East, Africa, and Asia.

Major Industries: We focus on critical infrastructure sectors, including airports, seaports, customs, air navigation agencies, and ministries of defense.

Market Focus: Our expertise lies in enhancing security measures for airports, seaports, coast guards, and battlefield operations, as well as optimizing efficiency for customs, air navigation agencies, and surveillance.

Investing in Cutting-edge Technologies: We invest in world-class, leading-edge technologies that bolster anti-terrorist and anti-crime efforts, such as narcotics, illegal weapons, and smuggling detection and prevention. **Please note that technology development and training have commenced at our Canadian facilities.**

World-class Security Expertise: GIS Defence assumes full responsibility for funding new capital investments and ensures compliance with all necessary international regulations.

GIS Defence can elevate your security standards and operational efficiency with our global expertise and innovative solutions.



Client Benefits

- ✓ GIS Defence specializes in developing state-of-the-art critical infrastructure security systems that adhere to the highest international standards. Our team comprises of seasoned specialists with extensive successful experience across North America, Asia, Europe, and Africa.
- ✓ GIS Defence provides our clients with cutting-edge technologies and hardware sourced from the world's leading manufacturers.
- ✓ Our primary objective at GIS Defence is to design modern, efficient security systems, ensuring ongoing maintenance and regular upgrades throughout the project's lifespan.
- ✓ Our projects enhance the country's reputation as a secure regional hub, attracting new investments and fostering economic growth through increased passenger and cargo volumes.
- ✓ GIS Defence brings investment, expertise, and additional income sources.
- ✓ We at GIS Defence create employment opportunities for local communities.
- ✓ GIS Defence operates exclusively within the security industry.

Our UAVs

Introducing the RB(3), RB(4), and RB(Prototype) UAVs, cutting-edge unmanned aircraft systems designed for superior performance in ISTAR missions. All models excel in aerial photography, data acquisition, and inspection tasks, with the RB(4) offering an impressive 40+ hours flight endurance. These UAVs provide versatile and reliable solutions for demanding aerial operations. These are fully customizable UAVs, designed for both civilian and combat-ready applications.



RB(3)

RB(3) UAV, a high-performance unmanned aircraft with 20+ hours of flight, ideal for ISTAR missions, aerial photography, data acquisition, and inspection.

RB(4)

RB(4) UAV, a customizable, high-performance unmanned aircraft system with 40+ hours of flight. Ideal for ISTAR missions, it supports payloads, loitering munitions, and smaller drones, excelling in aerial photography, data acquisition, and inspection.

FLYING HOURS **1,000,000+**

MILITARY HOURS **300,000+**



RB(3)

Introducing the RB(3) UAV, cutting-edge unmanned aircraft systems designed for superior performance in ISTAR missions. The model excels with different payloads in aerial photography, data acquisition, and inspection tasks, offering 20+ hours of flight endurance. This UAV provides versatile and reliable solutions for demanding aerial operations.

RB(3)

RB(3) boasts a modular design with a 3-meter wingspan, a maximum take-off weight of 23 kg, and a flight time of 20+ hours.



FLYING HOURS **1,000,000+**

MILITARY HOURS **300,000+**

COMPETITIVE ADVANTAGES

Featuring cutting-edge technology and improved capabilities, delivering exceptional performance, reliability, and efficiency across diverse applications.

Customizable to end-user

Payload Capacity	Up to 5 kg
Video Data Link Range	150 km
Endurance	20+ hrs
Cruising Speed	110-120 km/h
Range of Speed	80-160 km/h
Operating Altitude	Up to 4500 m
Flight Range	Up to 2500 km
Wingspan	2.98 m
Length	1.98 m
Dry Weight	11.5 kg
MTOW (Take-Off Weight)	23 kg
Fuel Tank Capacity	9 litres
Launch System	Mechanical catapult – 3 m length, 49 kg weight
Recovery System	Parachute with landing cushion
Power Supply	EFI engine using 91+ octane with oil mix (1 to 50)



150 km

Video Data Link Range



20+ hours

Endurance



Up to 5 kg

Payload Capacity



91+ octane

EFI Engine Power Supply

UAV



RB(4)

Introducing the RB(4) UAV, which can be customized to carry payloads, loitering munitions for battleships, and smaller drones for battlefield missions. A cutting-edge unmanned aircraft system designed for superior performance in ISTAR missions. The RB(4) provides versatile and reliable solutions for demanding aerial operations. This model excels in aerial photography, data acquisition, and inspection tasks, offering an impressive 40+ hours of flight endurance.

RB(4)

RB(4) features a modular design spanning 4 meters, a maximum take-off weight of 24.5 kg, and an impressive flight endurance of 40+ hours.



FLYING HOURS **1,000,000+**

MILITARY HOURS **300,000+**

COMPETITIVE ADVANTAGES

Featuring cutting-edge technology and improved capabilities, delivering exceptional performance, reliability, and efficiency across diverse applications.

Customizable to end-user

Payload Capacity	Up to 10 kg
Video Data Link Range	150 km
Endurance	40+ hrs
Cruising Speed	110-120 km/h
Range of Speed	80-160 km/h
Operating Altitude	Up to 4500 m
Flight Range	Up to 4000 km
Wingspan	4.2 m
Length	1.98 m
Dry Weight	12.5 kg
MTOW (Take-Off Weight)	24.5 kg Customizable
Fuel Tank Capacity	9 litres
Launch System	Mechanical catapult – 3 m length, 49 kg weight
Recovery System	Parachute with landing cushion
Power Supply	EFI engine using 91+ octane with oil mix (1 to 50)



150 km

Video Data Link Range



40+ hours

Endurance



Up to 10 kg

Payload Capacity, Customizable



91+ octane

EFI Engine Power Supply

GIS

GLOBAL
INNOVATIVE
SECURITY



Stealth Technology

Minimal detection and enhanced operational security



Satellite Link

Ensures global connectivity and seamless communication



INTRODUCING THE NEW

RB (PROTOTYPE) model

GIS Defence is proud to introduce the new RB (PROTOTYPE) model, an advanced iteration designed to outperform its predecessors. This cutting-edge model incorporates enhanced performance features, setting new standards in efficiency and capability. The RB (PROTOTYPE) is currently testing innovative stealth technology, significantly improving its operational discretion. Additionally, it boasts advanced satellite communication systems, further elevating its functionality. These advancements will pave the way for the future RB(3) and RB(4) models, ensuring GIS remains at the forefront of technological innovation and performance excellence.

Payloads

Radars and Sensors for Targeted Use

Our radars and sensors offer precise detection for security, navigation, and environmental monitoring, providing reliable data and enhancing situational awareness in various conditions.



FPV Copters

FPV copters equipped with high-resolution cameras, SAR, and advanced sensors excel in aerial photography, mapping, and real-time monitoring, making them versatile for both commercial and military applications.



Loitering Munitions

Loitering munitions, or suicide drones, use advanced guidance and high-explosive warheads for precision strikes and reconnaissance. They offer real-time control and endurance, suitable for military, counter-terrorism, and border security. Ministry of Defence procurement only.



Gyro-Stabilized Multisensor Gimbal

The gyro-stabilized multisensor gimbal provides high-quality, stable imagery with multiple sensors. It ensures smooth, jitter-free footage for aerial, maritime, and land-based applications, making it ideal for surveillance, mapping, and search and rescue.

EPSILON 140/140Z | EPSILON 175

The EPSILON 140/140Z and EPSILON 175 are advanced EO/IR surveillance systems with superior image stabilization, long-range imaging, and high precision GPS/INS. The EPSILON 140/140Z features exceptional LWIR performance and the EPSILON 175 offers enhanced MWIR capabilities with 15x optical zoom. Both systems include automatic object tracking, moving target indicators, and onboard video recording, ensuring reliable operation in demanding environments with rugged, fully sealed designs.



Aerial Photo Camera

The aerial photo camera captures high-resolution images with exceptional clarity, perfect for mapping, surveying, and environmental monitoring. Its advanced optics and robust design ensure reliable performance in diverse conditions.

CANON EOS-R | PHASE ONE iXM

The Canon EOS-R is a 30.3MP full-frame mirrorless camera with 4K video, advanced autofocus, and RF lens compatibility. The Phase One iXM series features 100MP and 50MP medium-format cameras for aerial imaging, offering high dynamic range, robust connectivity, and specialized lenses. Both are lightweight, professional-grade cameras designed for diverse shooting conditions.

Advanced Systems

Control System Software

The UAVs utilize a ruggedized Ground Control Station (GCS) equipped with specialized software designed for autopilot control and telemetry data processing. The GCS software enables real-time data display, video recording, and comprehensive control of UAV operations. It includes features such as encrypted telemetry links, frequency-hopping spread spectrum for secure data transmission, and multi-frequency global navigation satellite system (GNSS) support.

Communication Links

The UAV systems employ advanced communication links, including both digital data links and telemetry control data links, capable of operating up to 150 km. These systems use encrypted transmissions to ensure secure data exchange. The communication infrastructure supports autonomous flight modes and is equipped with anti-jamming features for reliable operation in challenging environments.

Avionics

The avionics suite in these UAVs includes an EFI engine for enhanced performance and efficiency, operating with a 95 Octane oil mix. The avionics support a wide range of environmental conditions with operating temperatures from -20 to +35 °C. The UAVs are designed for rapid deployment with tool-free assembly, and they feature advanced navigation systems with inertial navigation capabilities.

These systems are tailored to support various military and civilian applications, including ISTAR missions, border security, and long-range data collection.

Unmatched Endurance

The UAVs, with the RB(4) offering 40+ hours and the RB(3) 20+ hours of flight endurance, are essential for tasks such as aerial photography, data acquisition, surveillance, and border security. Their efficient EFI engines optimize fuel use and perform robustly in temperatures ranging from -20°C to +35°C. Aerodynamic enhancements improve flight efficiency, enabling prolonged monitoring with less frequent refueling. The ground control station facilitates extended missions with strong control and data handling, while their modular design ensures rapid assembly to reduce downtime. This extended endurance enhances operational efficiency, cost-effectiveness, and reliability.



Rapid and User-Friendly

The UAV system prioritizes quick assembly and user-friendliness. Its intuitive ground control station (GCS) features ultra-bright, anti-glare displays, precise 3-axis joysticks, a moisture-proof trackball, and a waterproof keyboard, ensuring ease of use in all conditions. The system's modular design allows tool-free assembly and disassembly, facilitating easy upgrades and maintenance. It can be unpacked and launched in less than 30 minutes by just two people, using a mechanical catapult for take-off and a parachute landing system with an airbag for safe recovery. The lightweight, compact design and low MTOW enable quick handling and transport, ensuring swift deployment and maximizing operational efficiency.



Resilient

The UAV system is built for resilience, ensuring reliable performance in challenging conditions. Its ruggedized ground control station (GCS) includes moisture-proof components like a compact trackball and waterproof keyboard, functioning effectively in wet environments. Ultra-bright, anti-glare displays provide clear visibility in adverse weather. The UAV's durable airframe resists impact and wear, with the ability to take off from unprepared surfaces and recover via a parachute with an airbag. Its modular design allows quick, tool-free part replacements, minimizing downtime. Advanced sensors and redundant systems ensure stable flight and real-time feedback, maintaining high reliability and operational efficiency in tough conditions.

Now Manufactured in Canada

Bringing our innovative defense solutions to North America, we enhance our global presence. With operations and manufacturing in Canada, we're set to deliver cutting-edge technologies, reinforcing our commitment to excellence and industry leadership. We are redefining the future of defense worldwide.

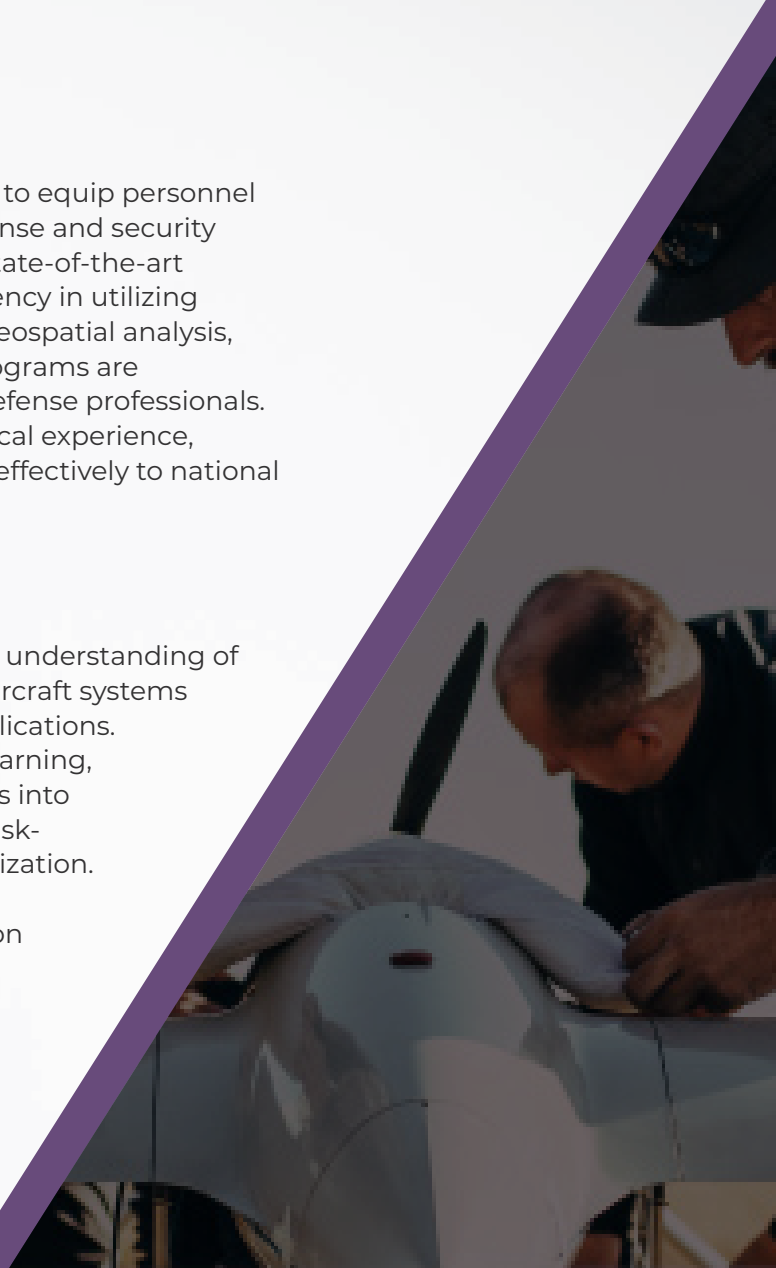
Proudly manufactured in Canada, we provide advanced geospatial intelligence and defense technology to enhance national security and operational efficiency. Our expert team offers innovative solutions in geospatial analysis, defense technology, data integration, and training. Committed to excellence, innovation, and integrity, we tailor our services to meet your unique needs.

Training Now Available in Canada

We offer comprehensive training programs designed to equip personnel with the latest skills and knowledge essential for defense and security operations. Our training facilities in Canada provide state-of-the-art simulations and hands-on exercises, ensuring proficiency in utilizing advanced technologies and strategies. Whether it's geospatial analysis, cybersecurity, or tactical deployment, our training programs are meticulously crafted to meet the evolving needs of defense professionals. Participants benefit from expert guidance and practical experience, preparing them to excel in their roles and contribute effectively to national and international defense efforts.

UAS Operators Training

This course provides delegates with a comprehensive understanding of the regulatory framework for operating unmanned aircraft systems (UAS), focusing on both defense and commercial applications. Over four weeks, participants engage in theoretical learning, practical exercises, and training flights to gain insights into evolving regulations, operational requirements, and risk-based processes necessary for UAS operations authorization. Key topics covered include the application of UAS in international air law, integration within current aviation infrastructure, typical use cases, UAV service and technical characteristics, and ensuring flight safety through risk management and technology. Upon successful completion of the course and examination, participants receive a certificate permitting them to operate UAVs.



Maintenance, Servicing, and Support

UAS Maintenance and Servicing in Canada

At every stage of cooperation, our team is dedicated to supporting clients, including through our Service Center in Canada. In addition to training operators, we offer technical services for system maintenance. We address all customer requests and can visit the site to assist with the preparation and support of the first flight. Our team also aids clients in organizing flights by selecting and preparing sites, conducting technical inspections and pre-flight preparations, and providing additional instructions for complex missions. Our professional operators and technicians offer both online and offline support for basic inquiries and special cases.

24/7 Support

We offer 24/7 support to ensure that our clients have continuous access to expertise and assistance whenever needed. Our dedicated support team is available around the clock to provide technical assistance, answer queries, and offer guidance on operational challenges. This commitment to support ensures that defense personnel can maintain operational readiness and effectiveness at all times, no matter where they are deployed.

Contact Us

Canada

550 Highway 7 East
Suite 339, Richmond Hill
Ontario, Canada
L4B 3Z4

1 416 549 5915

Bulgaria

5 Petko Karavelov St.
Gabrovo, Bulgaria 5300

+359-886-842-050